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cont.

piezoelectric material with intervening metallic or electrically conductive, alternating first and second electrode layers (10, 11) that function as electrodes, wherein these first and second electrode layers (10, 11) alternately contact first and second electrically conductive common electrode connections (12, 13), said first and second electrode layers (10, 11) respectively include portions which are disposed only on the outer cylinder wall (4) of the actuator body (1), and at points that are angularly offset from one another, and each portion from each of the first and second electrode layers contacts the first and second electrode connections (12, 13).

Please add new claims 32-48:

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32. A piezoelectric actuator for actuating control valves or injection valves of internal combustion engines in motor vehicles, comprising a circular, cylindrical piezoelectric actuator body (1) in the form of a multilayered laminate made up of stacked layers of piezoelectric material with intervening metallic or electrically conductive, alternating first and second electrode layers (10, 11) that function as electrodes, wherein these first and second electrode layers (10, 11) alternately contact first and second electrically conductive common electrode connections

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(12, 13), said first and second electrode layers (10, 11) respectively include portions which are disposed on the outer cylinder wall (4) of the actuator body (1) at points that are angularly offset from one another, and wherein the portions are not disposed on the opposite surface of the piezoelectric elements, and each portion from each of the first and second electrode layers contacts the first and second electrode connections (12, 13).

33. The piezoelectric actuator according to claim 32, wherein the points of the first and second electrode layers and the first and second electrode connections (12, 13) in contact with them, which are exposed on the outer cylinder wall (4) of the actuator body (1), are disposed diametrically opposite one another.

34. The piezoelectric actuator according to claim 32, wherein each first electrode layer (10) has a recess (17) which encompasses and insulates the second electrode connection (13).

35. The piezoelectric actuator according to claim 32, wherein each second electrode layer (11) has a recess (18)

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which encompasses and insulates the first electrode connection (12).

36. The piezoelectric actuator according to claim 32, wherein the first and/or second electrode connection (12, 13) constitutes a narrow strip extending in the longitudinal direction of the actuator body.

37. The piezoelectric actuator according to claim 32, wherein the first and/or second electrode connection (12, 13) constitutes a contact surface in the form of a section of a cylinder circumference extending in the circumferential direction at least a substantial extent, and also extending in the longitudinal direction of the actuator body (1).

38. The piezoelectric actuator according to claim 33, wherein each first electrode layer (10) has a recess (17) which encompasses and insulates the second electrode connection (13).

39. The piezoelectric actuator according to claim 33, wherein each second electrode layer (11) has a recess (18) which encompasses and insulates the first electrode connection (12).

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40. The piezoelectric actuator according to claim 34, wherein each second electrode layer (11) has a recess (18) which encompasses and insulates the first electrode connection (12).

41. The piezoelectric actuator according to claim 33, wherein the first and/or second electrode connection (12, 13) constitutes a narrow strip extending in the longitudinal direction of the actuator body.

42. The piezoelectric actuator according to claim 34, wherein the first and/or second electrode connection (12, 13) constitutes a narrow strip extending in the longitudinal direction of the actuator body.

43. The piezoelectric actuator according to claim 35, wherein the first and/or second electrode connection (12, 13) constitutes a narrow strip extending in the longitudinal direction of the actuator body.

44. The piezoelectric actuator according to claim 33, wherein the first and/or second electrode connection (12, 13) constitutes a contact surface in the form of a section of a cylinder circumference extending in the circumferential

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direction at least a substantial extent, and also extending in the longitudinal direction of the actuator body (1).

45. The piezoelectric actuator according to claim 38, wherein the first and/or second electrode connection (12, 13) constitutes a contact surface in the form of a section of a cylinder circumference extending in the circumferential direction at least a substantial extent, and also extending in the longitudinal direction of the actuator body (1).

46. The piezoelectric actuator according to claim 34, wherein the first and/or second electrode connection (12, 13) constitutes a contact surface in the form of a section of a cylinder circumference extending in the circumferential direction at least a substantial extent, and also extending in the longitudinal direction of the actuator body (1).

47. The piezoelectric actuator according to claim 35, wherein the first and/or second electrode connection (12, 13) constitutes a contact surface in the form of a section of a cylinder circumference extending in the circumferential direction at least a substantial extent, and also extending in the longitudinal direction of the actuator body (1).

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48. The piezoelectric actuator according to claim 36,
wherein the first and/or second electrode connection (12, 13)
constitutes a contact surface in the form of a section of a
cylinder circumference extending in the circumferential
direction at least a substantial extent, and also extending in
the longitudinal direction of the actuator body (1).